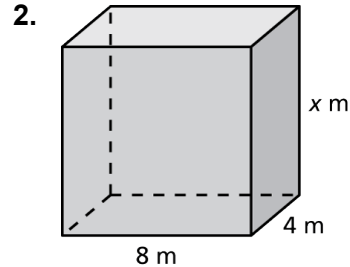
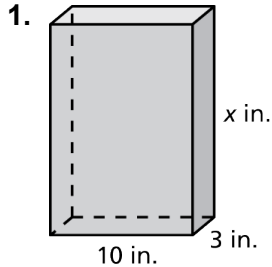


1.3 Practice B

The value of the solid's surface area is equal to the value of the solid's volume. Find the value of x .



Solve the equation. Check your solution.

3. $5y - 14 = 2y - 2$

4. $\frac{4}{7}m = 18 - \frac{2}{7}m$

5. $16(p - 2) = 7p + 4$

6. $4(2s - 3) = 3(s + 1)$

7. $0.3(t - 2) = 0.4t$

8. $\frac{2}{9}n + \frac{1}{2} = \frac{2}{3}(n + 3)$

9. Describe and correct the error in solving the equation.

$$\begin{array}{l} \times \quad 0.4x = 0.2(x - 8) \\ \quad 0.4x = 0.2x - 8 \\ \quad 0.2x = -8 \\ \quad x = -40 \end{array}$$

Solve the equation.

10. $4.2x - 3 = 0.5(8.4x + 6)$
11. $\frac{2}{3}x + 1 = \frac{2}{3}x - 1$
12. $1.5(6 - 2x) = 3x - 9$
13. $\frac{1}{2}x - 5 = \frac{3}{2}x - 5$
14. $-3(x + 5) = -(3x + 15)$
15. $-\frac{1}{2}x + 1\frac{1}{2} = \frac{1}{2}(3 - x)$
16. The original price p for a necklace is the same at both jewelry stores. At Store A, the sale price is 60% of the original price. Last month, at Store B the sale price was \$40 less than the original price. This month, Store B is selling the necklace for 80% of last month's reduced price. The current sale prices are the same for both stores. Write and solve an equation to find the original price of the necklace.